

PowerShot TX1

Imaging Sensor

Resolution	Approx. 7.1 million pixels
Recording pixels	3072 x 2304
Sensor type	Interline Transfer CCD
Sensor size	1/2.5-inch diagonal

Lens

Focal length	6.5 – 65.0mm (equivalent to 39–390mm, in 35mm format)
Image Stabilizer	Lens shift type. IS modes: Off, Continuous, Shoot Only, Panning
Zoom ratio	10x optical / 4x digital
Safety Zoom	Maximizes digital zoom image quality when shooting stills; each time image recording quality is lowered, additional digital zoom becomes available: Large = 10x, Medium 1 = 12x, Medium 2 = 15x, Medium 3 = 19x, Small = 40x
Lens construction	12 elements in 10 groups (including one aspherical lens with two aspherical surfaces)
Maximum Aperture	f/3.5 (W) - f/5.6 (T)
Closest focusing distance	Wide/Tele — 1.6 feet Macro — 3.9 inches
Autofocus	Face Detect AF to focus on human faces / 9-point AiAF / Single AF point (Center of frame)
Manual focus	Not available

Image Recording

JPEG image recording	8-bit JPEG; Three compression settings ("Super-Fine", "Fine", and "Normal")
RAW file recording	none
Data recording format	DCF (Design rule for Camera Filing system); DPOF ver. 1.1 (Digital Print Order Format) EXIF 2.2 compatible
Reduced resolution options	3072 x 1728 (5.3MP 16:9 Widescreen); 2592 x 1944 (5.1MP); 2048x 1536 (3.1MP); 1600 x 1200 (1.9MP); 640 x 480 (300K Pixels)
Sound memos for still images	Up to 60 second sound file can be recorded for each picture during playback • Wave (Stereo)
Storage media	SD memory cards including SDHC (over 2GB), MultiMedia memory cards and MMCplus card
Format function	Normal and low level format
Color space	sRGB

Shooting Controls

Shooting modes	Auto, Camera Manual, Super Macro, Stitch Assist, Color Accent, Color Swap, Movie, Special Scene • Special Scene Modes — Portrait, Night Snapshot, Indoor, Foliage, Snow, Beach, Aquarium
"My Colors" mode	Photo effects including: My Colors Off, Vivid, Vivid Blue, Vivid Green, Vivid Red, Neutral, Sepia, Black & White, Positive Film, Light Skin Tone, Dark Skin Tone, Custom Color. Avail- able in shooting and in playback modes (does not save original image)
Noise reduction	Available when shutter speed is set between 15 and 1.3 sec.
White Balance	Three options available: • Auto; Pre-set White Balance (daylight, cloudy, tungsten, fluorescent, fluorescent H); Custom setting (read and set WB off of white object or neutral gray object)

PowerShot TX1 specifications (continued)

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Self-timer

2-second delay, 10-second delay, and Custom Timer

- Custom Timer: user can set delay 0 ~ 10, 15, 20 or 30 seconds, and number of shots from 1 thru 10 (camera takes shots continuously after pre-set delay)

Exposure

Metering

Evaluative, Center-weighted average, Spot (spot metering at center)

- AE Lock is possible

Exposure compensation

+/- up to 2 stops, 1/3-stop increments

Auto exposure bracketing

None

ISO sensitivity

Auto, High ISO Auto; ISO 80, 100, 200, 400, 800, 1600 (user-set)

Shutter speed range

15 seconds ~ 1/2500 sec.

Viewfinder and LCD

LCD monitor

1.8-inch (diagonal) LCD monitor with wide viewing angle

- Resolution: approx. 115,000 pixels; 100% coverage of actual image
- 15 levels of brightness adjustment
- Night Display and Quick-bright LCD Available

Eye-level viewfinder

None

Special playback features

- My Category: User can put images into seven categories (People, Scenery, Events, Category 1-3, or To Do). Several categories can be set for the same image
- My Colors can be applied to an image in playback mode (does not save original image)
- Enlarged playback (2x ~ 10x) with free scrolling to any part of image
- Advance or reverse through magnified images is available
- Resume Playback remembers image being viewed if the battery loses its charge
- Histogram display, and Overexposure warning to indicate overexposed areas in an image
- Image is automatically rotated when camera is in either vertical or horizontal orientation
- Special transition effects can be added when advancing or reversing through still images
- Jump 10 images, Jump 100 images, Jump shot date, Jump by My category, Jump to movie, and Jump to folder
- Slide Show: Playlist: All Images, Date, My Category, Folder, Movies, Stills, Custom 1-3
- Movie playback: Normal, Slow Motion, Pause, Editing (portions of clip can be erased)

Performance

Imaging processor

DIGIC III imaging processor

Continuous shooting speed

Approx. 2.2 shots per second

- Continuous shooting until card is full is possible with a high speed SD card

Camera start-up time

- Shooting mode — 1.8 sec.
- Playback mode — 0.8 sec.

Movie Mode

Movie Recording format

AVI (Image data: Motion JPEG, Wave — Stereo)

Modes

New Wide-screen setting 16:9 and 4:3

- 1280 x 720 at 30/30 fps "LP" mode (16:9; up to 26 minutes or 4GB per movie clip)
- 640 x 480 at 30/30 fps "LP" mode (4:3; up to 56 minutes or 4GB per movie clip)
- 320 x 240 at 60/30 fps (4:3; up to 1 hour or 4GB per movie clip)

Features during movie recording

- Digital zoom (optical zoom not possible)
- Continuous auto exposure and white balance
- My Colors

Movie playback

On camera's LCD monitor (with sound); Standard TV monitor using video-out cord; or within Macintosh or Windows PC using Apple QuickTime™ software

Flash

Flash modes	Automatic firing; Flash On; Flash Off
Maximum distance	6.6 ft (W) / 3.9 ft (T) (ISO set to Auto)
Macro flash	1.1 inches - 1.6 ft (W/T)
Flash sync speeds	$\frac{1}{500}$ sec. (maximum synchronized shutter speed)
Compatible accessory Speedlites	None; compatible with Canon High-Power HF-DC1 flash

Computer Interface

Direct-connection to computer	USB via dedicated Canon USB cable IFC-400PCU (mini-B type supplied with camera) • USB speed: 2.0 Hi-speed
Communication settings	PTP (Picture Transfer Protocol), MTP (Media Transfer Protocol) • Compatible with new Windows Vista via MTP
Video Out to TV monitor	Yes, via Audio/Video cable AVC-DC300 • NTSC or PAL; selectable on camera's menu

Direct Printing

Compatible printers	Canon Compact Photo printers — prints directly to Canon CP and SELPHY printers Canon inkjet printers — prints directly to compatible Direct-print Canon printers Third-party inkjet printers — prints directly to PictBridge-compatible printers
Advanced Printing features	Print with shooting data, image optimizer (face brightener), ID Photo print, Movie print, Layout Print (Contact Sheet type index print) outputs 35 or 20 images per page with shooting data (New advanced printing features only available with Canon PIXMA Pro and select PIXMA desktop printers)
Print/Share button	Yes

Battery and Power

Type	Lithium-ion rechargeable battery: NB-4L
Recording capacity	• LCD monitor on — Approx. 160 shots (CIPA standard)
LCD playback time	Approx. 4 hours
AC adapter	(optional) AC Adapter Kit ACK-DC10

Body & Dimensions

Dimensions (W x H x D)	3.5 x 2.4 x 1.1 inches (89 x 60 x 29 mm), excluding protrusions
Weight (w/o battery or SD card)	7.8 oz. (Camera body only)

Other

Languages	25 languages: English, German, French, Dutch, Danish, Finnish, Italian, Norwegian, Swedish, Spanish, Simplified Chinese, Russian, Portuguese, Greek, Polish, Czech, Hungarian, Turkish, Traditional Chinese, Korean, Thai, Japanese, Romanian, Ukrainian, and Arabic
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